

Enhanced Denoising System**ABSTRACT**

A method and apparatus for processing a received digital signal that has been
5 corrupted by a channel is disclosed. The method includes storing the received digital signal
and receiving a partially corrected sequence of symbols that includes an output of a
preliminary denoising system operating on the received digital signal. Information specifying
a signal degradation function that measures the signal degradation that occurs if a symbol
having the value I is replaced by a symbol having the value J is utilized to generate a
10 processed digital signal by replacing each symbol having a value I in a context of that symbol
in the received digital signal with a symbol having a value J if replacement reduces a measure
of overall signal degradation in the processed digital signal relative to the received digital
signal as measured by the degradation function and the partially corrected sequence of
symbols.